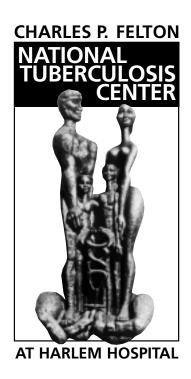
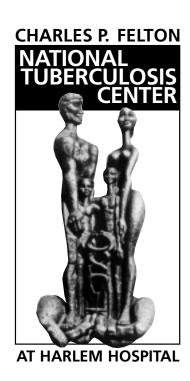
### Improving Treatment Completion for Latent Tuberculosis Infection Among Health Care Workers



## IMPROVING TREATMENT COMPLETION FOR LATENT TUBERCULOSIS INFECTION AMONG HEALTH CARE WORKERS



### **ACKNOWLEDGEMENTS**

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This document, and the program it describes, were developed by Joan Coley, MA.

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Website: www.harlemtbcenter.org

Graphic design: Judith Rew

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### **ABBREVIATIONS**

BCG bacille Calmette-Guérin vaccine

CDC Centers for Disease Control and Prevention

**EHS** Employee Health Services

HCW health care worker

HIV human immunodeficiency virus

INH isoniazid

MD medical doctor

RIF rifampin TB tuberculosis

TST tuberculin skin test

### INTRODUCTION

Completion of treatment for latent tuberculosis infection is emerging as a major component of the tuberculosis (TB) control program in the United States. Health Care Workers (HCWs) are a particularly important target population for this intervention because—if they themselves develop TB disease—they place at risk the many patients regularly encountered in their work.

Completion rates for treatment of latent TB infection are modest across treatment programs in general. Initiation and successful completion of therapy for latent TB infection among HCWs constitutes a particularly important goal—and a major challenge. Appropriate strategies are needed that can (1) identify the reasons for poor treatment initiation rates, (2) clarify the basis for poor adherence among those initiating treatment, and (3) promote high rates of initiation and completion of treatment.

At the Charles P. Felton National Tuberculosis Center at Harlem Hospital, we developed a program that was able to identify the underlying barriers and then dramatically improve rates of initiation and completion of treatment of latent TB infection. Through this process we learned a great deal that can be generalized to other health care institutions across the country. The purpose of this guide is, first, to summarize the highlights of our program, and then describe the steps that other institutions can follow in designing and implementing a program of their own.

### **BACKGROUND**

At Harlem Hospital we observed that many HCWs referred to the Chest Clinic from the Employee Health Service (EHS) because of a positive tuberculin skin test (TST) either did not keep their appointments, or did not return after their initial visit. In addition, only a small proportion of those HCWs who initiated treatment for latent TB infection returned to the Clinic for their monthly visits and continued to take their medication.

We documented the rates of initiation and completion of treatment for latent TB infection over a one-year period among HCWs at Harlem Hospital by reviewing the charts and pharmacy records of all HCWs who were found to be TST positive during an annual or pre-employment physical. This constituted our pre-intervention baseline data. It showed that, prior to our new program, only 55% of HCWs at Harlem Hospital who were eligible for treatment of latent TB infection actually began their treatment. Of those who began and were scheduled to finish in 6 months, only 11% completed therapy.

Barriers to initiation and completion of treatment were identified through interviews with hospital HCWs, chest clinic staff, and staff at EHS. Some of the barriers to initiation included lack of knowledge about TB and fear of medication side effects. Barriers to completing treatment included long wait times, inflexible appointment schedules, lengthy assessments by multiple providers, and lack of an appointment reminder system. Based on these findings, we developed a series of potential solutions to address these barriers. We initiated a multifaceted program the following year, including educational, structural, and supportive components, e.g., provision of specific educational materials, expedited medical assessment, and an active reminder system.

In the first full year of the implementation of the new "Fast Track" program, 72% of eligible employees initiated therapy. Of those eligible for completion, 81% actually did so.

This guide describes the procedures we followed and delineates methods that may be useful for other institutions to develop a similar program.

### BASELINE DOCUMENTATION AND PREPARATORY STEPS

- 1. Discuss the program to be developed with decision-makers in the relevant departments. Obtain their input on how to define the scope of the problem and collect data.
- 2. Identify the scope of the current problem in the facility. Before designing and implementing a program to improve initiation and completion of latent TB infection treatment, it is essential to determine current treatment completion rates. If available, data from Employee Health Service (EHS) on current rates of initiation and completion of treatment for latent TB infection should be collected for the preceding year. This can be used to set appropriate objectives and monitor the program.
  - EHS can assist in retrieving the names of all employees who were TST positive during their annual assessment the previous year. The data to be collected should include: number of HCWs skin tested; number who returned for reading; number who were eligible for latent TB infection treatment; number who initiated treatment for latent TB infection; and number who completed treatment. The rates of initiation and completion of treatment for latent TB infection should be calculated. Treatment completion rates should be broken down by informative categories, e.g. age, job category, gender (see sample characteristics in Appendix A).
  - A review of the pharmacy list of all HCWs who picked up medication each month, if available, will indicate whether HCWs retrieved their medication supply at the specified intervals. This list can be obtained from the main pharmacy in your institution; however, it might be difficult to obtain due to confidentiality concerns and your agency's policy.
- 3. Identify barriers that stand in the way of initiation and completion of treatment. This can be done through interviews or focus group discussions with employees, clinic staff, and the staff of the EHS. The primary principle to keep in mind is the necessity of seeking information from a diversity of providers on the one hand, and of HCWs (clients) on the other.
- **4.** Take the data back to decision-makers. All of the relevant departments, such as EHS and Human Resources, must be on-board and involved in structuring the solutions. You will need their buy-in for the new program to be successful.
- 5. Give one person—the Program Coordinator—the responsibility to serve as educator, navigator, and support system for the HCWs. Once the program is established, this may only be a part-time task. The role of the "Program Coordinator" is described further on pages 8-9. A designated person must play this key role in order for the program to be successful.

### **PROGRAM DEVELOPMENT:**

### A. Potential Barriers

The following are some of the barriers that were identified through interviewing HCWs at Harlem Hospital, staff at EHS, and staff at the chest clinic. Barriers may differ at your facility; this should be taken into account when developing this component of your program.

### **Scheduling and Structural Issues**

### DELAYS IN HCWS GETTING SERVICES IN EHS, CHEST CLINIC, X-RAY DEPARTMENT, LABORATORY, AND PHARMACY:

- Lengthy waiting times
- Lengthy assessments by multiple providers (e.g. nurse, then MD, back to nurse)
- Lack of rapid access to medications

### SYSTEMS MAY BE WEAK OR LACKING FOR:

- Tracking appointments and reminding clients ahead of time
- Reinforcing the importance of initiation and completion of treatment for latent TB infection
- In addition, work schedules may make it difficult for HCWs to keep appointments during working hours.

### Information and Attitudinal Issues

- Fear of medication side effects
- Belief that prior BCG vaccination protects against development of TB disease
- Belief that prior BCG vaccination is responsible for the positive TST
- Perception of not being at risk for TB, and thus not needing treatment
- Lack of knowledge about TB, especially the context and importance of treating latent TB infection
- Cultural beliefs that TB infection and TB disease can be treated with alternative modalities, e.g., herbs
- Confidentiality concerns, i.e., fear that others may find out that they are being treated for latent TB infection
- Health care providers are unclear about indications for treatment of latent TB infection

### PROGRAM DEVELOPMENT: B. Barriers and Potential Solutions

### **Scheduling and Structural Issues**

### LONG WAIT IN EHS, CLINIC, X-RAY DEPARTMENT, LABORATORY, OR PHARMACY

- 1. Develop pre-packaged evaluation kits for EHS to give to HCWs. These kits contain educational materials (see Appendices B, C, D, and E), intake form (Appendix F), X-ray and lab requisition slips. Requisition slips are distinctively colored and stamped *PRIORITY*. HCWs go to X-ray and lab <u>before</u> going to the chest clinic.
- 2. In the chest clinic, establish separate medical records for employees (duplicate record is made using carbonless copy paper; a copy of which should be sent to EHS). These medical records can be of a different color from those of other clinic patients and they can be kept in a different location, possibly with the Program Coordinator. This ensures easy access to the medical records.
- 3. Facilitate rapid evaluation by prioritizing clinic visits and expediting laboratory tests and radiologic assessments. The Program Coordinator should then be informed by EHS whenever an employee is referred to the clinic. When an employee comes to the clinic, the Program Coordinator should ensure that the employee gets registered and sees the physician and nurse immediately. This is especially important due to the time constraints of HCWs.
- 4. Provide medications directly to the HCW on the day of the scheduled visit. The Program Coordinator should pick up the medication from the pharmacy <u>before</u> the employee comes to the clinic—in order to speed up the process.
- 5. Use a self-assessment tool (see Appendix G) to be completed by the employee at each monthly visit. The Coordinator should review the questionnaire. Employees with no side effects or complaints or morbid conditions then pick up their medication immediately from the Coordinator.

### FORGETTING CLINIC APPOINTMENTS, OR UNABLE TO KEEP AN APPOINTMENT

- 1. Develop a reminder system to inform patients of an upcoming appointment. Employees should be called the day before their scheduled appointment to be reminded of the time and place.
- 2. Reschedule missed appointments promptly. If an appointment is missed, the Program Coordinator should call the employee and schedule another as soon as possible.
- 3. The Program Coordinator must keep a record of all appointments missed and phone calls made, using the activity and visit outcome forms (see Appendices H and I).

### Information and Attitudinal Issues

### FEAR OF SIDE EFFECTS FROM MEDICATION

- Provide educational materials that describe potential side effects, their likelihood, how to monitor for side effects, and how to manage them if they occur (see brochure, Appendix D and fact sheet, Appendix E)
- The Program Coordinator should be available to the HCW to answer all related questions and concerns.
- HCWs should be encouraged to call the Program Coordinator at any time if they have additional questions or concerns.

### MISCONCEPTIONS ABOUT BCG VACCINE

- Provide educational materials about BCG, information on its effectiveness, its impact on TST interpretation, etc. (see Appendix C). A HCW from the same or similar background, who has completed treatment for latent TB infection, can be especially useful.
- Commonly asked questions and answers:

Question: Could the BCG vaccine have caused my TB test to be positive?

**Answer:** It could, but the positive skin test is more likely to indicate latent TB infection. This is because BCG is usually given in countries with high rates of TB, where risk of infection is substantial.

Question: Will the BCG vaccine prevent me from getting TB infection or TB disease?

Answer: The BCG vaccine does not prevent TB infection or TB disease in adults.

### LACK OF KNOWLEDGE ABOUT TB INFECTION, PERCEPTION OF NOT BEING AT RISK, AND SPECIFIC CULTURAL BELIEFS

- One-on-one education of HCWs: start by administering the knowledge and attitudes questionnaires (Appendix J) and listening to their beliefs; build on what they already know
- Provide information about the importance of completing treatment for latent TB infection in language the client understands
- Do not discourage alternative treatments if they will do no harm and the client agrees to take treatment for latent TB infection at the same time
- Encourage HCWs to call the Program Coordinator if they have any questions or concerns

### CONFIDENTIALITY CONCERNS

- HCWs' absence from daily routine is rarely noticed because systems effectively provide rapid medical evaluation, self-assessment of side effects, and resupply of medications
- If medications are delivered to HCW outside the clinic, this is done inconspicuously
- HCWs' charts are maintained by the Program Coordinator; only direct providers of care are given access
- Final disposition of treatment for latent TB infection becomes a part of the HCW's confidential medical record at EHS

### HEALTH CARE PROVIDERS ARE UNCLEAR ABOUT INDICATIONS FOR TREATMENT OF LATENT TB INFECTION

- Educate and train providers in the EHS (physicians, physician assistants, and nurses)
- Educate and train treating physicians in your clinic so that they can reinforce the importance of treatment of latent TB infection in appropriate candidates. This training can use didactic materials, as well as develop communication skills through role-playing.
- Implement in-house training for other providers, e.g., nurses, social workers.

Training materials can be obtained from the National TB Centers, the Centers for Disease Control and Prevention (CDC), and your local or state health departments. The Program Coordinator should identify appropriate training materials and facilitate access to them (see Appendix K).

### **PROGRAM DEVELOPMENT:**

### C. Getting Started

### **Key Program Components**

- Identify a Program Coordinator, e.g., health educator, social worker, caseworker, or nurse, to spearhead the program. This person will have the role described below and should be selected based on their TB knowledge, good communication skills, and resourcefulness.
- 2. Develop systems to expedite patient registration and medication pick up. This can be accomplished through training of clerical staff and nursing staff to the specific needs of HCW clients.
- 3. Develop a reminder system for appointments and a follow-up system for missed appointments. The Program Coordinator should maintain records of HCW's appointments, status of completion of appointment, record of reminder calls, etc. (see Appendices H and I).
- 4. Develop a self-assessment tool to monitor side effects and eliminate unnecessary delays due to consultations with providers (see Appendix G).
- 5. Develop special medical records for HCWs that are kept at the Clinic to expedite assessments. The HCW's medical records should include: initial registration form, monthly self-assessment forms, TB knowledge and attitude questionnaire, laboratory results, and referral with TB skin test result from EHS.
- 6. Give priority for HCWs to see provider. If needed, the Program Coordinator should serve as a liaison and facilitator to expedite assessment.
- 7. Develop a stream-lined way of resupplying medications on a monthly basis with no delay for the HCW, who has to take time out of his/her busy workday. The Program Coordinator should secure the prescription, obtain medication from the pharmacy, and deliver it to the HCW.
- 8. Provide appropriate educational materials targeted to HCWs to provide information on latent TB infection therapy, BCG, and other relevant issues. Such materials can be obtained from your local or state health department or the Centers for Disease Control and Prevention. The Program Coordinator should ensure that appropriate educational materials are available (see Appendices B, C, D, E, and K).
- Develop a marketing plan for disseminating information about the program. This
  plan may include developing a brochure (see Appendix B), promoting the program at
  in-service training, and communicating information through departmental
  conferences.

### PROGRAM DEVELOPMENT:

### D. Role of the Program Coordinator

The key component in overcoming barriers is the identification of a person to coordinate this process. This person may be a health educator, a nurse, or another staff member. Once the program is established, this is usually only a part-time task.

### WHAT THE HCW/CLIENT DOES

### Goes to EHS for the required annual or pre-employment physical exam, including TST

Reports to the Clinic if TST is positive; get chest x-ray and medical assessment to see if treatment for latent TB infection is recommended

Becomes informed about TB infection and disease, and the importance of completing treatment for latent TB infection

Comes to the Clinic or another convenient location for monthly self-assessment visits and resupply of medications

### WHAT THE PROGRAM COORDINATOR DOES

Establishes a close, collaborative relationship with EHS team; serve as liaison to the EHS

Establishes a close, collaborative relationship with the clinic team; serve as liaison to the clinic

 If employee is not a candidate for treatment of latent TB infection: educates employee about TB, infection control, signs and symptoms of TB disease, and seeking medical assistance if these appear

### 2. If treatment of latent TB infection is recommended for employee:

- Educates employee about TB, treatment for latent TB infection, side effects, and importance of completion of treatment
- Gives monthly reminder before next appointment
- Has pre-filled prescriptions ready
- Gives employee self-assessment form
- Gives 1-month supply of medications if no complaints of side effects
- Arranges immediate consultation with physician or nurse, if needed
- Follows-up missed appointments promptly

### **EVALUATION OF PROGRAM OUTCOMES**

Development of an evaluation plan is critical before initiating the program. Assessment should take place at predetermined intervals to identify any need for modifications in the program. Outcomes of potential interest include the following:

- Proportion of eligible HCWs who initiate treatment for latent TB infection
- Proportion of scheduled visits completed
- On-time treatment completion rate
- HCW satisfaction with the program (see Appendix L)

The following shows an example of before and after evaluation:

### **EXAMPLE: HOSPITAL X**

| BEFORE INTERVENTION    | #       | %   |
|------------------------|---------|-----|
| # employees tested     | 700     |     |
| # returned for reading | 680     |     |
| % returned for reading | 680/700 | 97% |
| # TST positive         | 88      |     |
| % TST positive         | 88/680  | 13% |
| # eligible for Tx      | 70      |     |
| % eligible for Tx      | 70/88   | 80% |
| # who initiate Tx      | 35      |     |
| % who initiate Tx      | 35/70   | 50% |
| # who complete Tx      | 4       |     |
| % who complete Tx      | 4/35    | 11% |

| AFTER INTERVENTION     | #       | %   |
|------------------------|---------|-----|
| # employees tested     | 700     |     |
| # returned for reading | 680     |     |
| % returned for reading | 680/700 | 97% |
| # TST positive         | 88      |     |
| % TST positive         | 88/680  | 13% |
| # eligible for Tx      | 72      |     |
| % eligible for Tx      | 72/88   | 82% |
| # who initiate Tx      | 61      |     |
| % who initiate Tx      | 61/72   | 85% |
| # who complete Tx      | 52      |     |
| % who complete Tx      | 52/61   | 85% |

### APPENDIX A: Characteristics of Employees Starting Latent TB Infection Treatment at Hospital X

| CHARACTERISTICS OF EMPLOYEES | NUMBER | PERCENT | NUMBER (COMPLETING | COMPLETION<br>RATE |
|------------------------------|--------|---------|--------------------|--------------------|
| Gender                       |        |         |                    |                    |
| Male                         | 48     | 63%     |                    | 6%                 |
| Female                       | 28     | 37%     |                    | 14%                |
| Age Range                    | 19-69  |         |                    |                    |
| Median Age                   | 34     |         |                    |                    |
| EMPLOYEE TYPE                |        |         |                    |                    |
| Physician/PA                 | 29     | 38%     | 1                  | 3%                 |
| Nurses                       | 3      | 4%      | 1                  | 33%                |
| Volunteer/Students           | 13     | 17%     | 1                  | 8%                 |
| Clerical/Case Manager        | 10     | 13%     | 2                  | 20%                |
| Food Services/Housekeeping   | 8      | 11%     | 1                  | 12%                |
| Other                        | 13     | 17%     | 2                  | 16%                |
| Total                        | 76     | 100%    | 8                  |                    |

### APPENDIX B: BROCHURE - Fast-Track TB Special Program

### Who is Eligible?

Any employee at Harlem Hospital who has a positive TB skin test (PPD) and needs preventive therapy is eligible for this program.

## Why is preventive therapy important?

- If you have TB infection, a positive PPD, the TB bacteria in your body can cause you to get TB disease later on. Preventive therapy will kill TB bacteria and almost eliminate any chance of infection progressing to disease.
- Tuberculosis is a serious illness that can make you and others very sick. It is therefore very important for you to take preventive therapy (INH).

## For more information please call

Special Program for Health Care Workers

Fast Track TB

(PPD POSITIVE)

TB Infection

with

Joan Coley Sr. Health Educator (212) 939-8260

Dr. Wafaa El-Sadr Research Director (212) 939-2936 Dr. Garry Souffrant Medical Director (212) 939-8241



Charles P. Felton
National Tuberculosis
Center
At Harlem Hospital



## What is Fast Track TB?

Fast Track is a special program that will make it easier for employees at Harlem Hospital with a positive tuberculin skin test to complete preventive therapy with isoniazid (INH). We developed this special program for our employees because we recognize that it is often difficult to complete therapy. We would like to work very closely with you to make it as easy as possible for you to complete your treatment. If you have any questions don't hesitate to call our health educator, Joan Coley at (212) 939 - 8260.

## How will this program work?

Fast track will make it easier to complete preventive therapy by:

- Giving employees priority to be seen in the clinic.
- Giving employees priority in X-ray department and laboratory.
- Providing employees with medication on the day of their scheduled visit.
- Scheduling appointments at a convenient time for employees.
- Making appointment reminders and rescheduling missed appointments as soon as possible.
- Providing educational materials on preventive therapy, BCG, side effects of medication, etc.
- Providing incentives for employees to complete therapy.

## What are our goale?

Our goal is to:

- Ensure rapid evaluation of health care workers at Harlem Hospital who are eligible for preventive therapy.
- Ensure completion of preventive therapy among health care workers who are eligible for preventive therapy.

## ALL SERVICES FREE TO THE PATIENT

### Chest Clinics

New York City Department of Health • Bureau of Tuberculosis Control

### ne bronx

Morrisania

| ALL CLINICS ARE NEAR PUBLIC TRANSPORTATION. | A Bronv |
|---|---------|
|   |         |

718-901-6536/8

Mon.-Fri., 8:30-5:30; Sat., 8:30-4:30 Chest Center:

1309 Fulton Avenue

Hours:

Brooklyn

485 Throop Avenue Mon.-Fri., 8:30-4:30; Bedford: Hours:

718-574-2462/3

1st & 3rd Sat. of every month, 8:30-4:30 259 Bristol Street

**Brownsville:** 

Hours:

**Bushwick:** 

Hours:

718-495-7256/8

718-573-4886/4891

335 Central Avenue Mon.-Fri., 8:30-4:30

295 Flatbush Avenue Extension Tues., Wed., Thurs., 8:30-4:30

Ft. Greene:

Hours:

718-643-8357/6551 Wed., Fri., 8:30-5:00; Sat., 8:30-4:30 Mon., Thurs., 8:30-7:00; Tues.

212-239-1749/57

Manhattan

Chelsea:

Hours:

2nd & 4th Sat. of every month, 8:30-4:30 Tues., Wed., Fri., 8:30-5:00; Mon., Thurs., 8:30-7:00; 303 9th Avenue

Mon.—Thurs., 8:30-6:00; Fri., 8:30-12:30; 600 W. 168th Street Washington Heights

Chest Center:

Hours:

212-304-5435

1st & 3rd Sat. of every month, 8:30-4:30

**Queens** Corona:

718-476-7635/6

718-474-2100/1

Tues., Wed., Fri., 8:00-5:00; Sat., 8:30-4:30 67-10 Rockaway Beach Boulevard 34-33 Junction Boulevard Mon., Thurs., 8:30-7:00; Far Rockaway: Hours:

Mon., 8:30-12:30; Fri., 8:30-4:30

### Staten Island

Richmond: Hours:

718-983-4530 51 Stuyvesant Place Mon.-Fri., 8:30-4:30 THE CITY OF NEW YORK DEPARTMENT OF HEALTH Rudolph W. Giuliani, Mayor

For more information call 212-442-9968 or 212-442-6940 or visit our website at: http://www.ci.nyc.ny.us/health Neal L. Cohen, MD, Commissioner

New York City Department of Health



HERE'S WHAT YOU NEED TO KNOW IF YOU HAD THE BCG VACCINE,

REVISED MAY 99

# INFORMATION FOR PEOPLE WHO HAD BCG VACCINE

f you had BCG vaccine as a child and you are now being tested for TB, here are some important things to know:

- infectious disease that is • Tuberculosis (TB) is an common in many countries.
- TB infection is spread someone who has TB disease of the lungs. through the air by
- infection are not sick and People who just have TB

cannot spread infect others. the bacteria. Only people disease can with TB

disease. They that does not with a cough Some people get very sick develop TB infection with TB

go away.

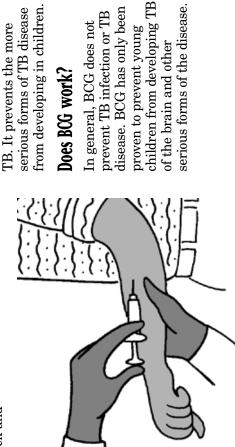
night sweats, and even infect others and must They often have fever, lose weight. They can get treatment.

BCG is not generally used long lasting. This is why not keep someone from getting TB infection. It disease, and this is not The BCG vaccine does in the United States. provides only weak protection from TB

countries with high rates of

very young children in

BCG is usually given to Why was I given BCG?



### How long does my BCG vaccine last?

Calmette-Guérin, which is a

BCG stands for bacille

What is BCG?

vaccine made of a live,

Answers to some questions you may have about BCG:

effective after 5 years. So if more than 5 years ago, it is you had your BCG vaccine with time. It is usually not BCG protection decreases no longer effective.

> oacteria. It is used in many weakened strain of the TB

countries.

### Could my BCG cause me to have a positive TB test?

your doctor know when you test positive for TB, but let nad your BCG and if you ago should not make you BCG given several years had more than one.

rom developing in children.

Control at: 212-442-9968 or New York City Department 212-442-6940 and ask to of Health, Bureau of TB speak to a public health questions about BCG or want a TB test, call the If you have any other

serious forms of the disease.

## HELP US PREVENT TB-GET TESTED NOW

## Departmento de Salud de la Ciudad de Nueva York Oficina de Tuberculosis Clínicas Para El Pecho

### Bronx

| Chock Contour             | T 17,0 0.90 E.90.   |                   |
|---------------------------|---|-------------------|
| Cnest Center:<br>Horas:   | Lunes-Viernes, 6:50-5:50;<br>Sábado, 8:30-4:30  |                   |
| Brooklyn                  |   |                   |
| <b>Bedford:</b><br>Horas: | <b>485 Throop Avenue</b><br>Lunes-Viernes, 8:30-4:30;<br>1 y 3 Sábado del mes, 8:30-4:30                                | 718-574-2462/3    |
| Brownsville:<br>Horas:    | <b>259 Bristol Street</b><br>Lunes-Viernes, 8:30-4:30   | 718-495-7256/8    |
| Bushwick:<br>Horas:       | 335 Central Avenue<br>Martes-Jueves, 8:30-4:30  | 212-573-4886/4891 |
| Ft. Greene:<br>Horas:     | 295 Flatbush Ave. Extension<br>Lunes, Jueves, 8:30-7:00;<br>Martes, Miércoles, Viernes, 8:30-5:00;<br>Sábado, 8:30-4:30 | 718-643-8357/6551 |

### Manhattan

| 718-476-7635/6  | 34-33 Junction Boulevard  | Corona:                                       |
|-----------------|---|---|
|                 |   | <b>Queens</b>                                 |
| 212-304-5435    | 600 West 168th Street<br>Lunes-Jueves, 8:30-6:00; Viernes, 8:30-12:30;<br>1 y 3 Sábado del mes, 8:30-4:30 | Washington Heights<br>Chest Center:<br>Horas: |
|                 | Martes, Miércoles, Viennes, 8:30-5:00;<br>2 y 4 Sábado del mes, 8:30-4:30                                 |   |
| 212-239-1749/57 |   | Chelsea:<br>Horas:                            |
| 212-239-1749/57 | 303 9th Avenue  | Chelsea:                                      |

| Horas:        | Lunes, Jueves, 8:30-7:00;              |               |
|---------------|--|---------------|
|               | Martes, Miércoles, Viernes, 8:00-5:00; |               |
|               | Sábado, 8:30-4:30                      |               |
| Far Rockaway: | 67-10 Rockaway Beach Boulevard         | 718-474-2100/ |
| Horas:        | Lunes, 8:30-12:30;                     |               |
| ,             | Viernes, 8:30-4:30                     |               |
|               |  |               |

### **Staten Island**

| Richmond: | 51 Stuyvesant Place      | 718-983-4530 |
|-----------|--------------------------|--------------|
| Horas:    | Lunes-Viernes, 8:30-4:30 |              |

Todas las clínicas están cerca del transporte público.

REVISED MAY 99

Departamento de Salud de la Ciudad de Nueva York UNIDAD DE CONTROL DE LA TUBERCULOSIS

Si a usted le han puesto la Vacuna BCG, necesita saber que...



# INFORMACION PARA PERSONAS QUE HAN RECIBIDO LA VACUNA BCG

Si cuando niño recibió la vacuna (PPD), debe saber lo siguiente: BCG y ahora va a recibir la prueba de la tuberculina

- La tuberculosis (TB) es una enfermedad infecciosa y es muy común en muchos países.
- através del aire por alguien que tiene la enfermedad de la TB en los pulmones o La infección se propaga recibiendo tratamiento. garganta y no está
- tuberculosis no está enferma • La gente que solamente y no puede propagar la enferma con TB puede tiene infección de la Solamente la gente bacteria (germen). infectar a otros.
- muy enfermos con una tuberculosis. Se ponen Algunas personas con tos que no mejora ni enfermedad de la desarrollan la infección de tuberculosis

otros, por lo tanto deben y también pierden peso. comenzar tratamiento Ellos tienen fiebre a rápido.

tuberculosis. Esta sólo ayuda desarrollar la enfermedad de mucho tiempo. Por esa razón La vacuna BCG no evita que la TB, y esto no dura por generalmente no se usa. en los Estados Unidos usted se infecte con un poquito a evitar

menudo, sudores nocturnos Ellos sí pueden infectar a

La BCG se le pone usualmente

¿Porqué me pusieron BCG?

TB, ya que la vacuna previene

as formas más serias de suberculosis en los niños.

donde existe un alto índice de

diferentes edades en países

a los infantes y niños de



### ¿Por cuánto tiempo me proteje la BCG?

Guérin, la cual es una vacuna

BCG es Bacilo de Calmette-

¿Oné es BCG?

debilitada de la bacteria de la

suberculosis.

hecha de la cepa viva y

Respuestas para algunas preguntas acerca de la Vacuna BCG

manera que si usted se la puso cinco años atrás, la vacuna ya después de los cinco años, de Usualmente no es efectiva desaparece con el tiempo. La protección de la BCG dejó de ser efectiva.

### ¿Me provoca la vacuna BCG una prueba de TB positiva?

fecha cuando se puso la BCG y Una BCG puesta algunos años prueba de la TB sea positiva, si se ha puesto más de una. atrás no debe hacer que la pero dígale a su médico la

prueba, llame al Departamento pregunta acerca de la vacuna BCG o necesita hacerse la de Salud de la Ciudad de Nueva York TB Control. Si tiene cualquier otra

que desarrolle la enfermedad

persona se infecte con TB ni

La BCG no previene que la

¿Trabaja la vacuna BCG?

comprobado que la BCG sólo

de la tuberculosis. Se ha

## 212-442-9968 6 212-442-6940

cerebro y otras complicaciones

desarrollen tuberculosis del

previene que los niños

Y pregunte por un Educador www.ci.nyc.ny.us/health ó visite a nuestro website: de de Salud Pública,

## AYUDENOS A PREVENIR LA TB- HAGASE LA PRUEBA AHORA

### **APPENDIX D: Brochure - Therapy to Prevent Tuberculosis**



| New York City D ALL SEI ALL CLINI                       | New York City Department of Health • Bureau of Tuberculosis Control ALL SERVICES ARE FREE AND CONFIDENTIAL ALL CLINICS ARE NEAR PUBLIC TRANSPORTATION | culosis Control VTIAL STATION |
|---|---|-------------------------------|
| The Bronx   |   |                               |
| Morrisania<br>Chest Center:<br>Hours:                   | 1309 Fulton Avenue<br>MonFri, 8:00-5:30;<br>Sat., 8:30-4:30   | 718-901-6536/8                |
| Brooklyn  |   |                               |
| Bedford:<br>Hours:                                      | 485 Throop Avenue<br>MonFri, 8:30-4:30,<br>1st & 3rd Sat. of every month, 8:30-4:30   | 718-574-2462/3                |
| Brownsville:<br>Hours:                                  | 259 Bristol Street<br>Mon.–Fri., 8:30-4:30  | 718-495-7256/8                |
| Bushwick:<br>Hours:                                     | <b>335 Central Avenue</b><br>Tues, Wed., Thurs., 8:30-4:30  | 718-573-4886/4891             |
| Ft. Greene:<br>Hours:<br>Manhattan                      | 295 Flatbush Avenue Extension<br>Mon., Thurs., 8:30-7:00; Tues.,<br>Wed., Fri., 8:30-5:00; Sat., 8:30-4:30  | 718-643-8357/6551             |
| Chelsea:<br>Hours:                                      | 308 9th Avenue Mon., Thurs., 8:30-7:00; Tues., Wed., Fri., 8:30-5:00; 2nd & 4th Sat. of every month, 8:30-4:30  | 212-239-1749/57               |
| Washington Heights<br>Chest Center:<br>Hours:<br>Queens | 600 W. 168th Street MonThurs., 8:30-6:00; Fri., 8:30-12:30 1st & 3rd Sat. of every month, 8:30-4:30   | 212-304-5435                  |
| Corona:<br>Hours:                                       | <b>34-33 Junction Boulevard</b> Mon., Thurs., 8:00-7:00; Tues, Wed., Fri., 8:00-5:00; Sat., 8:30-4:30   | 718-476-7635/6                |

### Staten Island

**67-10 Rockaway Beach Boulevard** Mon., 8:30-12:30, Fri., 8:30-4:30

Far Rockaway:

51 Stuyvesant Place Mon.–Fri., 8:30-4:30 Richmond: Hours:

THE CITY OF NEW YORK DEPARTMENT OF HEALTH Rudolph W. Giuliani, Mayor

For more information call 212.442-9968 or 212-442-6940 or visit our website at: http://www.ci.nyc.nyus/health Neal L. Cohen, MD, Commissioner

# **Questions and Answers About Preventive Treatment**

### What is preventive treatment?

you from getting tuberculosis, or rB. TB is a serious disease that can damage your lungs or other This is medicine that prevents parts of your body.

you have a positive TB skin test, you probably have TB germs in your body. This means that you could develop TB in the future, You don't have TB now. But if unless you take preventive reatment.

### Why do I need preventive treatment?

Right now the TB germs in your sick, and they CANNOT spread with TB infection do NOT feel called **TB infection**. People body are not active. This is IB germs to other people.

But the TB germs can become nappens, you will develop TB active at any time. If this

• You will feel sick

### family and friends, by coughing You may spread TB germs to other people, such as your

• You will need to take several medicines for a long time

treatment, you will kill the TB germs in your body now, before protects not just you, but other you ever get TB disease. This If you take preventive people you care about.

### medicine if I don't feel sick? Why do I have to take

You don't feel sick now, because not active. But these germs can the TB germs in your body are become active at any time, especially in

- Young children
- People recently exposed to TB
  - HIV-positive people
- conditions, such as diabetes or • People with certain medical kidney disease

germs before they become active Preventive treatment kills TB

## What if I had BCG vaccine?

test and you are younger than 35 you need preventive treatment get TB infection and TB disease. protect against TB. People who nave had BCG vaccine can still If you have a positive TB skin or you are at high risk for TB, BCG vaccine does not always even if you have had BCG vaccine.

### What medicines do I take for preventive treatment?

Doctors usually prescribe a drug called isoniazid, or INH. Sometimes doctors will also prescribe department chest clinic. patients at any health medicines are free to Vitamin B6. These

### Is INH safe?

few people may have side germs, and it is safe. But as with any medicine, a doctor or nurse if you effects. Talk to your Yes. INH is the best nave any questions. medicine to kill TB

### Why do I need monthly check-ups?

doctor or nurse every month to very important that you see the While you are taking INH, it is

- Check your health and answer • Make sure you're not having any side effects
- Get the next month's supply of your questions

HNI

### How long do I have to take the medicine?

To kill TB germs, INH must be taken regularly for

### 6-12 months.

You need to take ALL of your medicine for the whole time. the medicine early, and you should not miss any doses. You should not stop taking This is the only way

to prevent TB





## I CAN PREVENT

### APPENDIX E: Brochure — Facts about INH

New York City Department of Health BUREAU OF TUBERCULOSIS CONTROL

### FACTS ABOUT INH

Your doctor has prescribed isoniazid, or INH, to protect you from getting tuberculosis (TB). Here are some things you should know about INH:

- To prevent TB, you must take ALL of your medicine for the WHOLE time. This means
  - -6 months if you are an adult
  - -9 months if you are younger than 18
  - -12 months if you are HIV positive
  - -12 months if you have scarring on your chest x-ray
- Try to take INH at the same time every day. Many people find it best to take INH just before bedtime because it makes them a little sleepy.
- If you forget to take your medicine, do not take extra pills the next day, but tell your doctor or nurse. Never take more than the prescribed amount each day.
- Do NOT drink alcohol while you are taking INH.
- Do not take other medicines, including Tylenol, unless you ask your doctor first.

- INH is the best medicine to fight TB germs, and it is safe.
   But as with any medicine, a few people may have side effects.
   The possible side effects are
  - -Nausea
  - -Vomiting
  - -Loss of appetite
  - -Yellow skin and eyes
  - -Dark urine
  - -Skin rash

If you have any of these side effects, **stop taking INH** and tell your doctor or nurse right away.

- While you are taking INH, you need to see your doctor or nurse every month to
  - -Make sure you're not having any side effects
  - -Check your health and answer your questions
  - -Get the next month's supply of INH
- It's not easy to take medicine when you don't feel sick. But by taking INH now, you reduce your risk of getting TB disease in the future. Treatment for TB disease is more difficult.

If you have any questions, call your clinic.



Rudolph W. Giuliani, *Mayor* Neal L. Cohen, *Commissioner* 

### **APPENDIX F: Tuberculin Screening—Initial Form**

| Chart #:                  | Social Security I  | Number (optional)                           |
|---------------------------|--|---|
| Name: Last:               | First:   | Middle:                                     |
| Address:                  |  |   |
|                           |  | Zip:  |
| Home Telephone: (         | )  | Work Telephone: ( ) –                       |
| Beeper:                   | Hospita  | al mailing address:                         |
| Birthdate: /              | _/   | Sex: 🗆 Male 🗅 Female                        |
| Race/Ethnicity:           | White, not Hispanic  | <ul><li>Asian or Pacific Islander</li></ul> |
|                           | Black, not Hispanic  | ☐ American Indian or Alaskan Native         |
|                           | 1 Hispanic   | ☐ Other specify:                            |
| Were you born in the l    | J.S.? ☐ Yes ☐ No   |   |
| If No, country of birth:  |  |   |
| Year ent                  | ered the U.S.: or  | ☐ Don't know                                |
| _                         | I BCG (Bacille Calmette-Gu<br>DT a PPD or tuberculin skin test). | érin) vaccine?                              |
|                           | ☐ Yes ☐ No   | ☐ Don't know                                |
| If yes, year received las | t vaccine: or  | ☐ Don't know year.                          |
| Have you ever had acti    | ve TB?   | ☐ Don't know                                |
| Current TST Result Dat    | e://   | Current TST Result: mm                      |
| Previous TST Result Da    | te:/   | Result (circle one): Positive / Negative    |
|                           |  | Documented? ☐ Yes ☐ No                      |
| Which of the following    | g describes your work locat                                      | tion/ward? (Check only one.)                |
| ☐ 1.Work 75%              | or more of the time at on  | ne location/ward,                           |
| specify:                  |  |   |
| ☐ 2.Work at m             | ultiple locations/wards  |   |
| What is your job title/o  | ccupation?   |   |
| Department:               |  |   |
| Date Started at Harlem    | n Hospital (month/year) _  | _/_   |
| Physicians and Physicia   | n's Assistants, please specif                                    | fy service/specialty:                       |
| Date form completed:      | _/_/_  | Signature                                   |
|                           |  | Signature                                   |

### APPENDIX G: Fast Track Employee Self-Assessment Form

| Charles P. Felton National Tuberculosis Cente at Harlem Hospital 2238 Fifth Ave., First Floor New York, N.Y. 10037 |        |        | r                   |      |     |          |  | _   |    |
|--|--------|--------|---------------------|------|-----|----------|--|-----|----|
|  |        |        | L                   |      |     |          |  | _   |    |
| Date://  |        |        |                     |      |     |          |  |     |    |
| Current Medication  Do you have any  |        | so com | nlainte?            |      |     | Date m   | edication started: _                             | /   | _/ |
| ——————————————————————————————————————   | Yes    | No     | ———                 | •    | Yes | No       |  | Yes | No |
| Fever  |        |        | Poor appe           |      |     |          | Itching  |     |    |
| Rash   |        |        | Nausea              |      |     |          | Fatigue  |     |    |
| Vomiting   |        |        | Problem w<br>Vision | vith |     |          | Pain, tingling or<br>numbness in<br>legs or arms |     |    |
| Abdominal Pain   |        |        | Yellow Eye          | es   |     |          | Dark Urine                                       |     |    |
| Other (specify):   |        |        |                     |      |     |          |  |     |    |
| Do you need to see doctor?   |        |        | Yes □               | No □ |     |          |  |     |    |
| Did you miss any medication?   |        |        | Yes 🗆               | No □ | If  | yes, hov | w many days?                                     |     |    |
| Do you need to see Educator?   |        |        | Yes 🗆 No 🗅          |      |     |          |  |     |    |
| Triage decision:   |        |        | □ MD F/             | Up   |     |          | Refill Medications                               |     |    |
| Coordinator's Sign   | nature | 2      |                     |      |     |          | ate: /   | 1   |    |

### **APPENDIX H: Fast Track Activity Form**

| Name: | Chart #:   |  |
|-------|------------|--|
|       |            |  |
|       |            |  |
| DATE  | ACTIVITIES |  |
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### **APPENDIX I: Fast Track Visit Outcome Form**

| Name:      | Chart #: |
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|            |          |
| VICIT DATE | OUTCOMEC |
| VISIT DATE | OUTCOMES |
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### APPENDIX J (PART 1): Questionnaire on TB Knowledge

This questionnaire is designed to find out how much you know about tuberculosis.

### PLEASE INDICATE IF THE FOLLOWING STATEMENTS ARE TRUE OR FALSE, OR IF YOU DON'T KNOW.

|    |  | True | False | Don't Know |
|----|--|------|-------|------------|
| 1. | It is easier to get TB by living in crowded conditions.                        | 1    | 0     | 9          |
| 2. | A person can get TB by sharing dishes or utensils with someone who has TB.     | 1    | 0     | 9          |
| 3. | A person can get TB by touching something that someone with TB has coughed on. | 1    | 0     | 9          |
| 4. | You are more likely to get TB from a stranger than from a family member.       | 1    | 0     | 9          |
| 5. | Which of the following are symptoms of TB?                                     |      |       |            |
|    | a. losing weight   | 1    | 0     | 9          |
|    | b. having night sweats   | 1    | 0     | 9          |
|    | c. coughing  | 1    | 0     | 9          |
|    | d. swelling of feet  | 1    | 0     | 9          |
|    | e. yellow sputum   | 1    | 0     | 9          |
| 6. | A positive TB skin test means that you already have TB disease                 | . 1  | 0     | 9          |
| 7. | Taking medication can cure almost all cases of TB.                             | 1    | 0     | 9          |
| 8. | Treatment of TB can be completed in as little as one month.                    | . 1  | 0     | 9          |
| 9. | People who have HIV are more likely to get sick with TB.                       | 1    | 0     | 9          |
| 10 | Being infected with TB does not mean you are sick with TB.                     | 1    | 0     | 9          |
| 11 | A person with TB disease can look and feel fine.                               | 1    | 0     | 9          |
|    |  |      |       |            |

### ANSWER KEY

1) T; 2) F; 3) F; 4) F; 5) a=T, b=T, c=T, d=F, e=F; 6) F; 7) T; 8) F; 9) T; 10) T; 11) T.

### APPENDIX J (PART 2): Questionnaire on Attitudes about Treatment for TB Infection and Disease

| Scale | 1 Strongly Disagree  |           |
|-------|--|-----------|
|       | 2 Disagree Somewhat  |           |
|       | <ul><li>3 Agree Somewhat</li><li>4 Strongly Agree</li></ul>  |           |
|       |  | ASE CIRCL |
| 1.    | I believe I have the TB germ in your body.   | 1 2 3     |
| 2.    | My positive TB test is likely to be because of the BCG vaccine.  | 1 2 3     |
| 3.    | The BCG vaccine will prevent me from getting TB disease.   | 1 2 3     |
| 4.    | No matter what I do, I could still get TB disease.   | 1 2 3     |
| 5.    | People with positive skin tests may need to take TB medicine.  | 1 2 3     |
| 6.    | Taking medicine to prevent my getting TB disease is very important.  | 1 2 3     |
| 7.    | Taking my medicine is a hassle.  | 1 2 3     |
| 8.    | It will take something very serious to keep me from taking my medicine.  | 23        |
| 9.    | Going to appointments is more trouble than it is worth.  | 2 3       |
| 10.   | If I do the right thing, I can avoid getting sick with TB disease.   | 2 3       |
|       | people don't complete their treatment for TB infection. Please give three omeone would not complete their treatment. | reasons   |
| 1)    |  |           |
| 2)    |  |           |
| 3)    |  |           |
|       |  |           |

### **APPENDIX K: Sources for TB Educational Materials**

### ■ LOCAL OR STATE HEALTH DEPARTMENT OR AMERICAN LUNG ASSOCIATION

### ■ THE NEW YORK CITY DEPARTMENT OF HEALTH

### **Tuberculosis Control Program**

Education and Training Unit 253 Broadway, 22nd floor, Box 72-A

New York, NY 10007

Phone: (212) 442-9968 Fax: (212) 442-9998

Website: www.ci.nyc.ny.us/health

### **■ FRANCIS J. CURRY NATIONAL TB CENTER**

3180 Eighteenth Street, Suite 101

San Francisco, CA 94110

Phone: (415) 502-4600 / Fax: (415) 502-4620

Website: www.nationaltbcenter.edu

### CHARLES P. FELTON NATIONAL TB CENTER AT HARLEM HOSPITAL

2238 Fifth Avenue, First Floor

New York, NY 10037

Phone: (212) 939-8254 / Fax: (212) 939-8259

Website: www.harlemtbcenter.org

### ■ NEW JERSEY MEDICAL SCHOOL NATIONAL TB CENTER

65 Bergen Street, Suite GB-1

Newark, NJ 07107-3001

Phone: (973) 972-3270 / Fax: (973) 972-3268

Website: www.umdnj.edu/ntbc

### ■ CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)

Division of Tuberculosis Elimination Communications and Education Branch 1600 Clifton Road, N.E., Atlanta, GA 30333 Phone: (405) 639-8135 / Fax: (404) 639-8960 Website: www.cdc.gov/nchstp/dtbe.html

### ■ LIVE INTERACTIVE SATELLITE TELECONFERENCES

State health departments, the Francis J. Curry National Tuberculosis Center, and the CDC periodically sponsor nation-wide or regional satellite teleconferences on relevant TB topics. Up to date comprehensive information about future broadcasts is available from the Public Health Training Network web site at http://www.cdc.gov/phtn.

### **APPENDIX L: Fast Track Evaluation Form**

### THE CHARLES P. FELTON NATIONAL TUBERCULOSIS CENTER AT HARLEM HOSPITAL Date: \_\_\_\_\_ We would like to thank you for participating in the Fast Track program. We appreciate your assistance in answering the following questions. 1. Did you miss any of your scheduled clinic visits? ☐ Yes ☐ No \_\_\_\_ If no, go ☐ to question #3 2. If yes, why did you miss your appointments? ☐ Did not remember ☐ Did not have the time ☐ Still had medication left ☐ Could not get time-off work ☐ Other (specify) 3. Did you miss any doses/days of medication? ☐ Yes ☐ No If no go to question #6 4. If yes, in a typical week, how many days did you miss? Number of days missed 5. In a typical month, how many weeks did you miss? Number of weeks missed \_\_\_\_\_\_ 6. How many months of treatment did you take? Number of months\_\_\_\_\_ 7. Did you have any side effects taking your medication? Yes No Specify \_\_\_\_\_\_ 8. Did you have any difficulties taking your medication? Yes No Specify \_\_\_\_\_ 9. Was the Fast Track program helpful in getting you to complete therapy? ☐ Yes ☐ No If no, why not? \_\_\_\_\_

| IO. VVII          | at did you find the most helpful?                              |
|-------------------|--|
|                   | Educational materials  |
|                   | Short wait time  |
|                   | Program well organized   |
|                   | Reminders  |
|                   | Being able to make appointments at a convenient time and place |
|                   | Prompt availability of medication                              |
|                   | Other (specify)  |
|                   |  |
| 11. Wh            | at are other factors that helped you?                          |
|                   | at are other factors that helped you?<br>Self motivation       |
|                   | Self motivation  |
|                   | ·  |
| □ 9<br>□ 1<br>□ / | Self motivation Family support                                 |

### CHARLES P. FELTON NATIONAL TUBERCULOSIS CENTER AT HARLEM HOSPITAL

2238 Fifth Avenue, First Floor New York, NY 10037 Phone 212-939-8254 Fax 212-939-8259 Website www.harlemtbcenter.org